



1600

RAW SEQUENCE LISTING

DATE: 05/15/2003

PATENT APPLICATION: US/09/429,798A

TIME: 12:42:36

Input Set : A:\9233.8DV1.ST25.txt

Output Set: N:\CRF4\05152003\I429798A.raw

3 <110> APPLICANT: Ekwuribe, Nnochiri
4 Radhakrishnan, Balasingam
5 Price, Christopher
6 Anderson, Wesley
7 Ansari, Aslam
9 <120> TITLE OF INVENTION: BLOOD-BRAIN BARRIER THERAPEUTICS
11 <130> FILE REFERENCE: 9233.8DV1
13 <140> CURRENT APPLICATION NUMBER: US 09/429,798A
14 <141> CURRENT FILING DATE: 1999-10-29
16 <150> PRIOR APPLICATION NUMBER: US 09/134,803
17 <151> PRIOR FILING DATE: 1998-08-14
19 <160> NUMBER OF SEQ ID NOS: 52
21 <170> SOFTWARE: PatentIn version 3.2
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 6
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Synthetic construct
32 <220> FEATURE:
33 <221> NAME/KEY: MOD_RES
34 <222> LOCATION: (6)..(6)
35 <223> OTHER INFORMATION: Polymer connected to epsilon-amino group
37 <400> SEQUENCE: 1
39 Tyr Gly Gly Phe Met Lys
40 1 5
43 <210> SEQ ID NO: 2
44 <211> LENGTH: 6
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49 <223> OTHER INFORMATION: Synthetic construct
52 <220> FEATURE:
53 <221> NAME/KEY: MOD_RES
54 <222> LOCATION: (1)..(1)
55 <223> OTHER INFORMATION: Polymer connected to alpha-amino group
57 <220> FEATURE:
58 <221> NAME/KEY: MOD_RES
59 <222> LOCATION: (6)..(6)
60 <223> OTHER INFORMATION: Polymer connected to epsilon-amino group
62 <400> SEQUENCE: 2
64 Tyr Gly Gly Phe Met Lys
65 1 5

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68 <210> SEQ ID NO: 3
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70 <212> TYPE: PRT
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77 <220> FEATURE:
78 <221> NAME/KEY: MOD_RES
79 <222> LOCATION: (1)..(1)
80 <223> OTHER INFORMATION: Polymer connected to alpha-amino group
82 <400> SEQUENCE: 3
84 Tyr Gly Gly Phe Met Lys
85 1 5
88 <210> SEQ ID NO: 4
89 <211> LENGTH: 6
90 <212> TYPE: PRT
91 <213> ORGANISM: Artificial sequence
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94 <223> OTHER INFORMATION: Synthetic construct
97 <220> FEATURE:
98 <221> NAME/KEY: MOD_RES
99 <222> LOCATION: (1)..(1)
100 <223> OTHER INFORMATION: ACETYLATION
102 <220> FEATURE:
103 <221> NAME/KEY: MOD_RES
104 <222> LOCATION: (6)..(6)
105 <223> OTHER INFORMATION: AMIDATION
107 <400> SEQUENCE: 4
109 Phe Arg Trp Trp Tyr Lys
110 1 5
113 <210> SEQ ID NO: 5
114 <211> LENGTH: 6
115 <212> TYPE: PRT
116 <213> ORGANISM: Artificial sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Synthetic construct
122 <220> FEATURE:
123 <221> NAME/KEY: MOD_RES
124 <222> LOCATION: (1)..(1)
125 <223> OTHER INFORMATION: ACETYLATION
127 <220> FEATURE:
128 <221> NAME/KEY: MOD_RES
129 <222> LOCATION: (6)..(6)
130 <223> OTHER INFORMATION: AMIDATION
132 <400> SEQUENCE: 5
134 Arg Trp Ile Gly Trp Lys
135 1 5
138 <210> SEQ ID NO: 6
139 <211> LENGTH: 6

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140 <212> TYPE: PRT
 141 <213> ORGANISM: Artificial sequence
 143 <220> FEATURE:
 144 <223> OTHER INFORMATION: Synthetic construct
 147 <220> FEATURE:
 148 <221> NAME/KEY: MOD_RES
 149 <222> LOCATION: (6)..(6)
 150 <223> OTHER INFORMATION: AMIDATION
 152 <220> FEATURE:
 153 <221> NAME/KEY: MISC_FEATURE
 154 <222> LOCATION: (6)..(6)
 155 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 157 <400> SEQUENCE: 6

W--> 159 Trp Trp Pro Lys His Xaa

160 1 5
 163 <210> SEQ ID NO: 7
 164 <211> LENGTH: 4
 165 <212> TYPE: PRT
 166 <213> ORGANISM: Artificial sequence
 168 <220> FEATURE:
 169 <223> OTHER INFORMATION: Synthetic construct
 172 <220> FEATURE:
 173 <221> NAME/KEY: MOD_RES
 174 <222> LOCATION: (4)..(4)
 175 <223> OTHER INFORMATION: AMIDATION
 177 <220> FEATURE:
 178 <221> NAME/KEY: MISC_FEATURE
 179 <222> LOCATION: (4)..(4)
 180 <223> OTHER INFORMATION: Xaa is either Lys or Arg
 182 <400> SEQUENCE: 7

W--> 184 Trp Trp Pro Xaa

185 1
 188 <210> SEQ ID NO: 8
 189 <211> LENGTH: 6
 190 <212> TYPE: PRT
 191 <213> ORGANISM: Artificial sequence
 193 <220> FEATURE:
 194 <223> OTHER INFORMATION: Synthetic construct
 197 <220> FEATURE:
 198 <221> NAME/KEY: MOD_RES
 199 <222> LOCATION: (6)..(6)
 200 <223> OTHER INFORMATION: AMIDATION
 202 <220> FEATURE:
 203 <221> NAME/KEY: MISC_FEATURE
 204 <222> LOCATION: (6)..(6)
 205 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 207 <400> SEQUENCE: 8

W--> 209 Tyr Pro Phe Gly Phe Xaa

210 1 5

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Input Set : A:\9233.8DV1.ST25.txt

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213 <210> SEQ ID NO: 9
214 <211> LENGTH: 7
215 <212> TYPE: PRT
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219 <223> OTHER INFORMATION: Synthetic construct
222 <220> FEATURE:
223 <221> NAME/KEY: MOD_RES
224 <222> LOCATION: (1)..(5)
225 <223> OTHER INFORMATION: Amino acids are in the D-form
227 <220> FEATURE:
228 <221> NAME/KEY: MOD_RES
229 <222> LOCATION: (6)..(6)
230 <223> OTHER INFORMATION: n is 0 or 1
232 <220> FEATURE:
233 <221> NAME/KEY: MISC_FEATURE
234 <222> LOCATION: (7)..(7)
235 <223> OTHER INFORMATION: Xaa is Gly or the D-form of any naturally occurring amino
acid
237 <220> FEATURE:
238 <221> NAME/KEY: MOD_RES
239 <222> LOCATION: (7)..(7)
240 <223> OTHER INFORMATION: Amidation
242 <400> SEQUENCE: 9
W--> 244 Ile Met Ser Trp Trp Gly Xaa
245 1 5
248 <210> SEQ ID NO: 10
249 <211> LENGTH: 6
250 <212> TYPE: PRT
251 <213> ORGANISM: Artificial sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Synthetic construct
257 <220> FEATURE:
258 <221> NAME/KEY: MOD_RES
259 <222> LOCATION: (1)..(4)
260 <223> OTHER INFORMATION: Amino acids are in the D-form
262 <220> FEATURE:
263 <221> NAME/KEY: MISC_FEATURE
264 <222> LOCATION: (6)..(6)
265 <223> OTHER INFORMATION: Xaa is Gly or the D-form of any naturally occurring amino
acid
267 <220> FEATURE:
268 <221> NAME/KEY: MOD_RES
269 <222> LOCATION: (6)..(6)
270 <223> OTHER INFORMATION: AMIDATION
272 <400> SEQUENCE: 10
W--> 274 Ile Met Thr Trp Gly Xaa
275 1 5
278 <210> SEQ ID NO: 11
279 <211> LENGTH: 4
280 <212> TYPE: PRT

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281 <213> ORGANISM: Artificial sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Synthetic construct
287 <220> FEATURE:
288 <221> NAME/KEY: MISC_FEATURE
289 <222> LOCATION: (2)..(2)
290 <223> OTHER INFORMATION: Xaa is A1, wherein A1 is the D-form of Nve or Mle
292 <220> FEATURE:
293 <221> NAME/KEY: MISC_FEATURE
294 <222> LOCATION: (3)..(3)
295 <223> OTHER INFORMATION: Xaa is B2, wherein B2 is Gly, Phe, or Trp
297 <220> FEATURE:
298 <221> NAME/KEY: MISC_FEATURE
299 <222> LOCATION: (4)..(4)
300 <223> OTHER INFORMATION: Xaa is C3, wherein C3 is Trp or Nap
302 <220> FEATURE:
303 <221> NAME/KEY: MOD_RES
304 <222> LOCATION: (4)..(4)
305 <223> OTHER INFORMATION: AMIDATION
307 <400> SEQUENCE: 11
W--> 309 Tyr Xaa Xaa Xaa
310 1
313 <210> SEQ ID NO: 12
314 <211> LENGTH: 3
315 <212> TYPE: PRT
316 <213> ORGANISM: Artificial sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: Synthetic construct
322 <220> FEATURE:
323 <221> NAME/KEY: MOD_RES
324 <222> LOCATION: (1)..(1)
325 <223> OTHER INFORMATION: Tyr has at its N-terminus a Me-x-H-y-N group, wherein x is
0, 1,
326 or 2; and y is 0, 1, or 2, with the proviso that x and y is never
327 greater than 2
329 <220> FEATURE:
330 <221> NAME/KEY: MOD_RES
331 <222> LOCATION: (1)..(2)
332 <223> OTHER INFORMATION: The amine between the first Tyr and the second Tyr is
methylated,
333 wherein z is 0 or 1
335 <220> FEATURE:
336 <221> NAME/KEY: MISC_FEATURE
337 <222> LOCATION: (3)..(3)
338 <223> OTHER INFORMATION: Xaa is Xaa-z, wherein Xaa is Phe, D-Phe or NHBzl, and
wherein z
339 is 0 or 1
341 <220> FEATURE:
342 <221> NAME/KEY: MOD_RES
343 <222> LOCATION: (3)..(3)
344 <223> OTHER INFORMATION: AMIDATION
346 <400> SEQUENCE: 12

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/429,798A

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Input Set : A:\9233.8DV1.ST25.txt
Output Set: N:\CRF4\05152003\I429798A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 6
Seq#:7; Xaa Pos. 4
Seq#:8; Xaa Pos. 6
Seq#:9; Xaa Pos. 7
Seq#:10; Xaa Pos. 6
Seq#:11; Xaa Pos. 2, 3, 4
Seq#:12; Xaa Pos. 3
Seq#:13; Xaa Pos. 4, 6
Seq#:14; Xaa Pos. 2
Seq#:15; Xaa Pos. 2
Seq#:16; Xaa Pos. 2
Seq#:17; Xaa Pos. 2
Seq#:18; Xaa Pos. 2
Seq#:19; Xaa Pos. 2
Seq#:20; Xaa Pos. 2
Seq#:21; Xaa Pos. 2
Seq#:22; Xaa Pos. 2
Seq#:23; Xaa Pos. 2
Seq#:24; Xaa Pos. 2
Seq#:25; Xaa Pos. 2
Seq#:26; Xaa Pos. 2
Seq#:27; Xaa Pos. 2
Seq#:28; Xaa Pos. 2
Seq#:29; Xaa Pos. 2
Seq#:30; Xaa Pos. 2
Seq#:31; Xaa Pos. 2
Seq#:32; Xaa Pos. 2
Seq#:33; Xaa Pos. 2
Seq#:34; Xaa Pos. 2
Seq#:35; Xaa Pos. 2, 3
Seq#:36; Xaa Pos. 2
Seq#:37; Xaa Pos. 2
Seq#:38; Xaa Pos. 2
Seq#:39; Xaa Pos. 2
Seq#:40; Xaa Pos. 2
Seq#:41; Xaa Pos. 2
Seq#:42; Xaa Pos. 2
Seq#:43; Xaa Pos. 2
Seq#:44; Xaa Pos. 2
Seq#:45; Xaa Pos. 2
Seq#:46; Xaa Pos. 2
Seq#:47; Xaa Pos. 2

VERIFICATION SUMMARY

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Input Set : A:\9233.8DV1.ST25.txt

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L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:834 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:1024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:1049 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:1074 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:1129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:1179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:1204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:1230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:1256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0